

ABSTRACT

THE DEVELOPMENT OF OXY ACETYLENE WELDING TEXTBOOK TO IMPROVE STUDENT ACHIEVEMENT IN SMK PIRI SLEMAN YOGYAKARTA

by:

Eko Agus Prasetyo

NIM: 09503245003

The research aims at creating an appropriate textbook as a material of learning basic welding jobs, to know the process of making textbook as learning materials in vocational basic welding jobs at SMK Piri Sleman.

This research was a Research and Development. The research was conducted in the tenth grade of Mechanical Engineering Department, SMK Piri Sleman Yogyakarta consisting of 19 students. While the textbook development design phases included: feasibility study (school observation, syllabus relevance, teaching-learning process problems, suggestions and input, selection of learning materials), planning of making textbook, collecting materials, making preliminary product design, preliminary product, alpha testing (material and media experts), revision 1 (revision of alpha testing), beta testing (students), revision 2 (revision of beta testing), final product (textbook). Data were collected by means of instruments and questionnaires with a Guttman scale. Analysis technique used in the study was descriptive qualitative analysis to describe characteristic of qualitative data on its respective instrument variables, and to find out the appropriateness textbook of oxy acetylene welding.

The result of this research was a form of instructional textbook media. The appropriateness test score for oxy acetylene welding textbook by the material experts was an average score of 1 (decent), by the media expert was the average score of 1 (decent), and by means of field test was an average score of 0.94 (decent). The test scores given by material and media experts as well as the students indicated that the learning media taking form of the textbook is appropriate for supporting the learning process of oxy acetylene welding.

Key-words: *Textbook, Learning, Oxy acetylene welding.*